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In the Abstract:

Please replace the abstract as filed with the following abstract:

--A graphical User interface (GUI) displays in real time and allows dynamic control, adjust, modify, update and overwrite functions for a genetic algorithm's evolution parameter field variables used to optimally solve complex problems. The GUI and supporting fitness function(s) directly manipulate several genetic algorithm (GA) input parameters that constrain the GA problem solving capabilities: the number of crossovers per run, the probability that any bit will be a cutpoint and the probability that any bit will be mutated, for examples. Whether and how efficiently a genetic algorithm evolves a best solution may be evaluated with this GA GUI during runs of the GA.--